


 Form PTO 1449 US Department of Commerce Patent and Trademark Office

ATTY DOCKET NO: P-IX 4976	SERIAL NO. 09/995,529
APPLICANT: Watkins et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: 11/26/01 GROUP: 1632 1642

SR

U.S. PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
SR	5,223,409	6/29/93	Ladner et al.	435	69.7	3/1/91
↓	5,264,563	11/23/93	Huse	536	25.3	12/14/92
↓	5,403,484	4/4/95	Ladner et al.	435	235.1	1/26/93
↓	5,523,388	6/4/96	Huse	536	22.1	2/27/95
↓	5,871,974	2/16/99	Huse	435	69.7	12/2/94

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)
SR	WO 98/33919	06/08/98	PCT	-	-	RECEIVED
↓	WO 99/06834	11/02/99	PCT	-	-	JUL 08 2002
↓	WO 00/40597	13/07/00	PCT	-	-	TECH CENTER 1600/2300
↓	WO 00/78815	28/12/02	PCT	-	-	
↓	WO 01/27160	19/04/01	PCT	-	-	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

SR	Chothia and Lesk, "Canonical Structures for the Hypervariable Regions of Immunoglobulins," J. Mol. Biol., 196:901-917 (1987).
↓	Glaser et al., "Antibody Engineering by Condon-Based Mutagenesis in a Filamentous Phage Vector System," J. Immunology, 149(12):3903-3913 (1992).

EXAMINER	DATE CONSIDERED 4/21/04
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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SR		Huse et al., "Application of a Filamentous Phage pVIII Fusion Protein System Suitable for Efficient Production, Screening, and Mutagenesis of F(ab) Antibody Fragments," <u>J. Immunology</u> , 149(12):3914--3920 (1992).
		Kabat et al., "Unusual Distributions of Amino Acids in Complementarity-determining (Hypervariable) Segments of Heavy and Light Chains of Immunoglobulins and Their Possible Roles in Specificity of Antibody-combining Sites," <u>J. Biol. Chem.</u> , 252(19):6609-6616 (1977).
		Kabat et al., "Sequences of Proteins of Immunological Interest," U.S. Department of Health and Human Services (1991)
		Kristensson et al., "Humanization of a Murine Antibody against <u>Cryptococcus neoformans</u> Polysaccharide Using a Novel Approach," in <u>Vaccines 95</u> , pp.39-43 Cold Spring Harbor Laboratory, Cold Spring Harbor (1995).
		Kunkel, "Rapid and Efficient Site-Specific Mutagenesis without Phenotypic Selection," <u>Proc. Natl. Acad. Sci. USA</u> , 82(2):488-492 (1985).
		MacCallum et al., "Antibody-antigen interactions: contact analysis and binding site topography" <u>J. Mol. Biol.</u> , 262:732-745 (1996).
		Watkins et al., "Determination of the Relative Affinities of Antibody Fragments Expressed in <u>Escherichia coli</u> by Enzyme-Linked Immunosorbent Assay," <u>Analytical Biochem.</u> , 253:37-45 (1997).
		Wu et al., "Humanization of a Murine Monoclonal Antibody by Simultaneous Optimization of Framework and CDR Residues," <u>J. Mol. Biol.</u> , 294:151-162 (1999).
		Wu et al., "Stepwise in vitro affinity maturation of Vitaxin, an $\alpha\beta_2$ -specific humanized mAb," <u>Proc. Natl. Acad. Sci. USA</u> , 95:6037-6042 (1998).

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EXAMINER <i>J. Rowe</i>	DATE CONSIDERED 4/21/04	TECH CENTER 1600/2900
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EXAMINER <i>gzw</i>	DATE CONSIDERED <i>4/21/04</i>
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